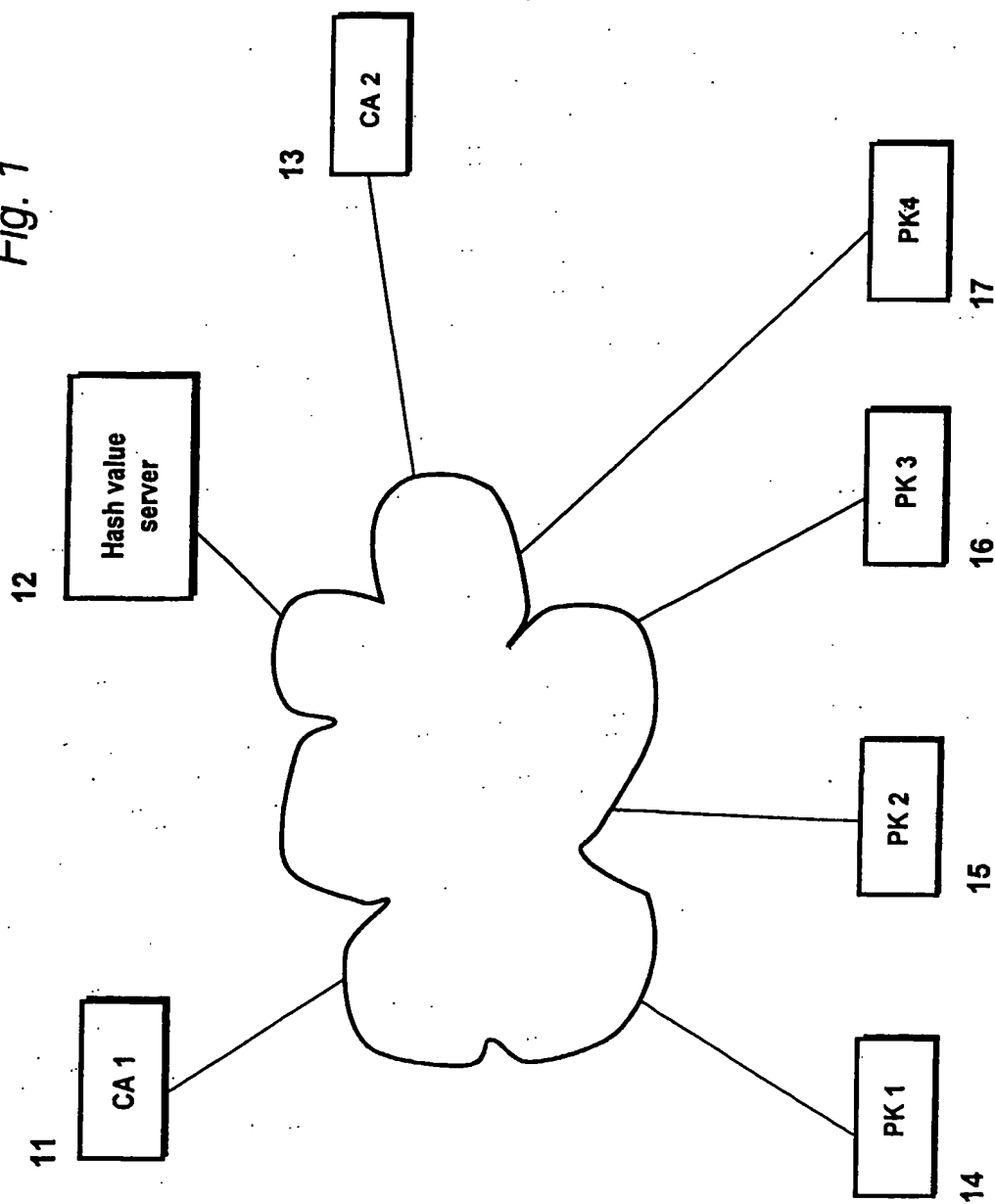
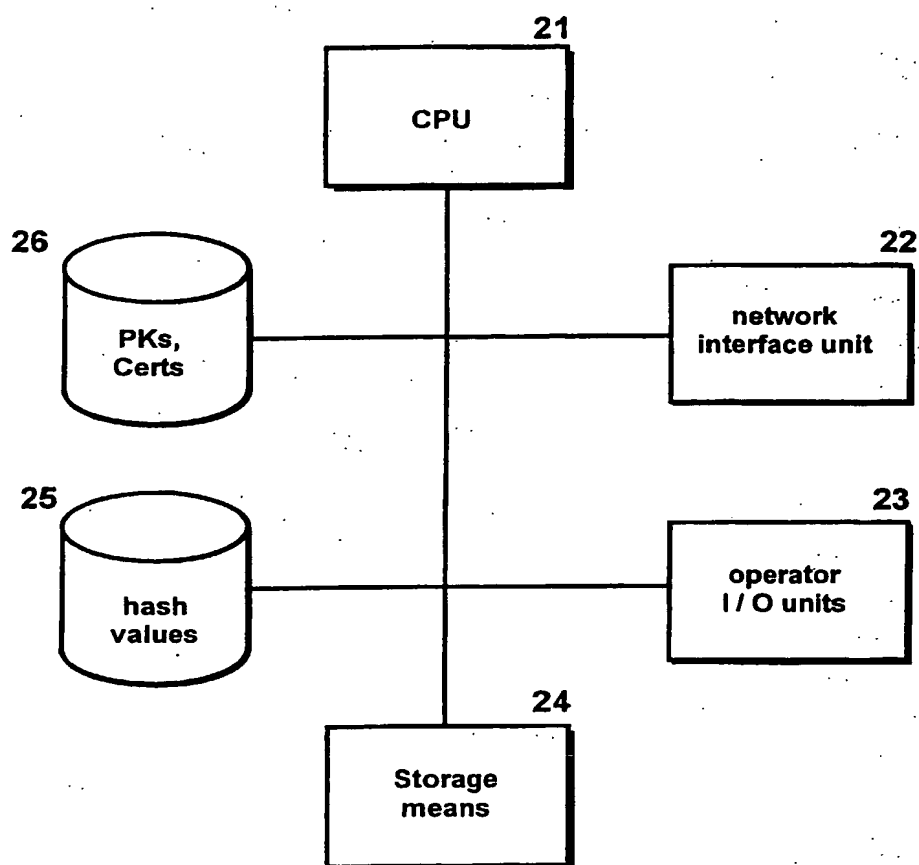


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Fig. 1



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*Fig. 2*

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31 email address	32 hash value
fn 1. ln 1 @ a.com n 2 @2. de n 3 @ aol.com n 4 @ web.de HVL @ ca2.org	H ( PK 1) H ( PK 2) H ( PK 3) H ( PK 4) H ( HVL of CA2)

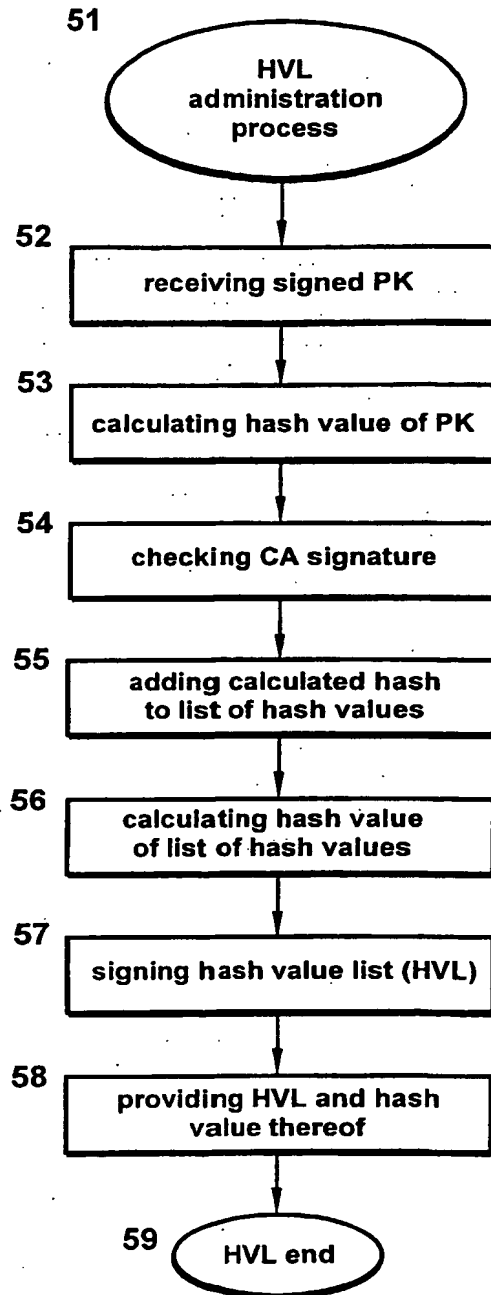
*Fig. 3*

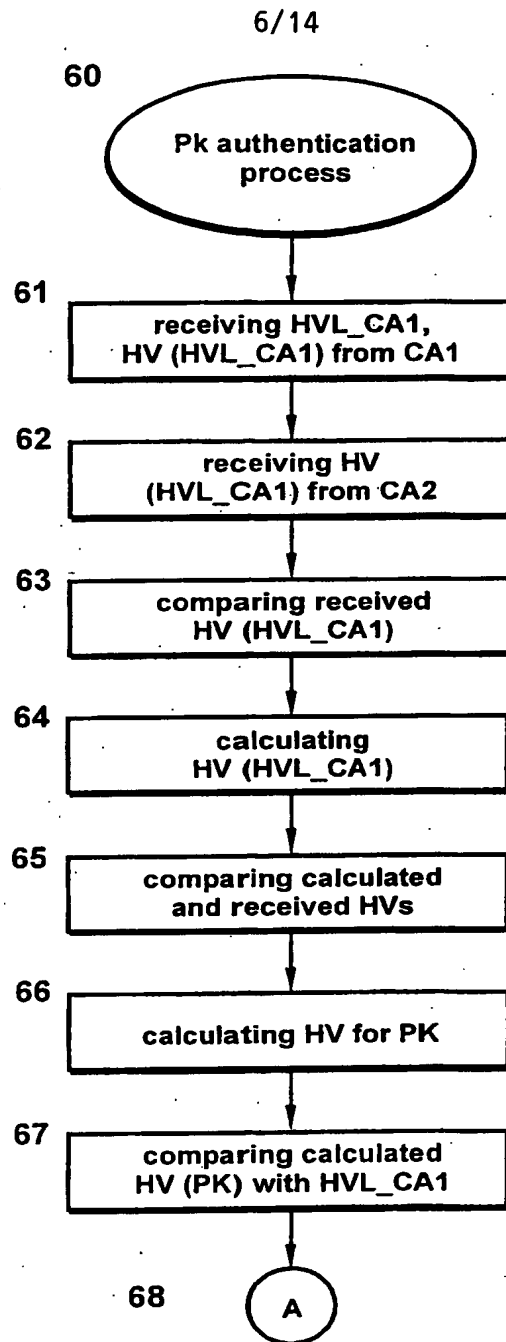
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41 user ID	42 public key	43 certificate
1	PK 1	CA 1_cert (PK 1)
2	PK 2	CA 2_cert (PK 2)
3	PK 3	CA 1_cert (PK 3)
4	PK 4	CA 1_cert (PK 4)
CA 2	PK- CA 2	CA 1_cert (PK_CA 2)

Fig. 4

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*Fig. 5*

*Fig. 6*

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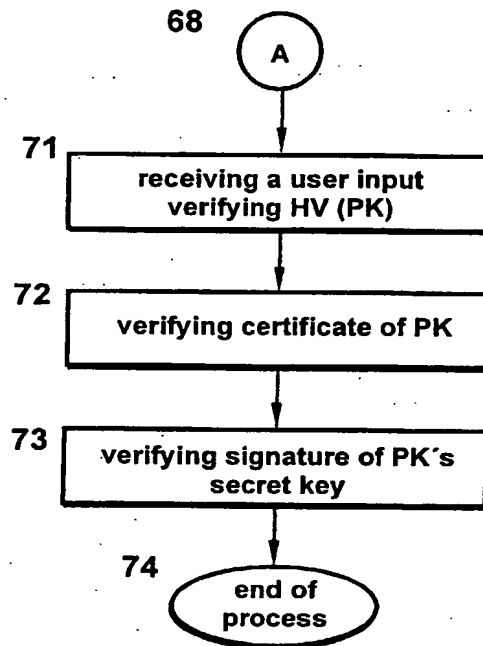


Fig. 7

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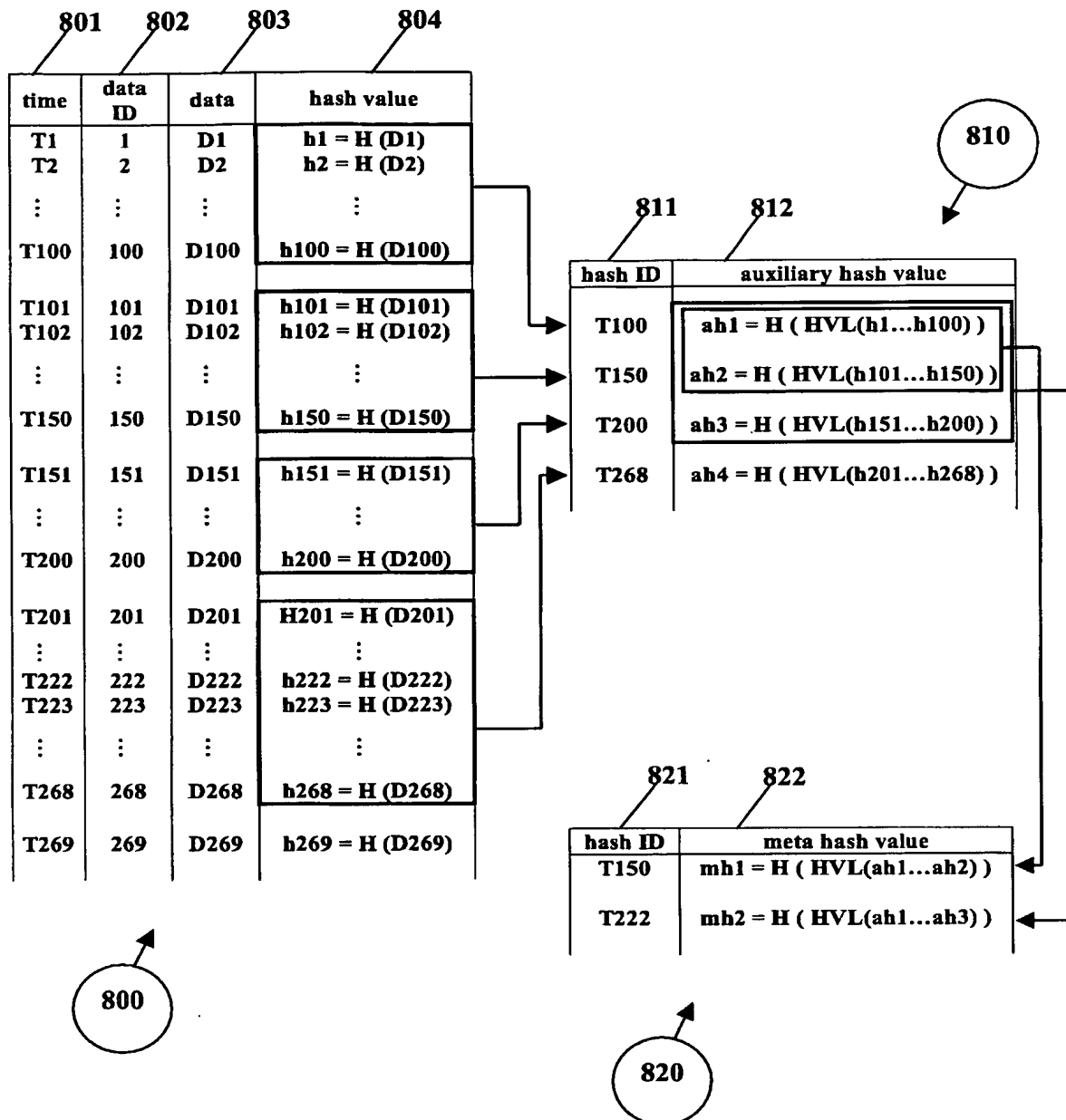


Fig. 8



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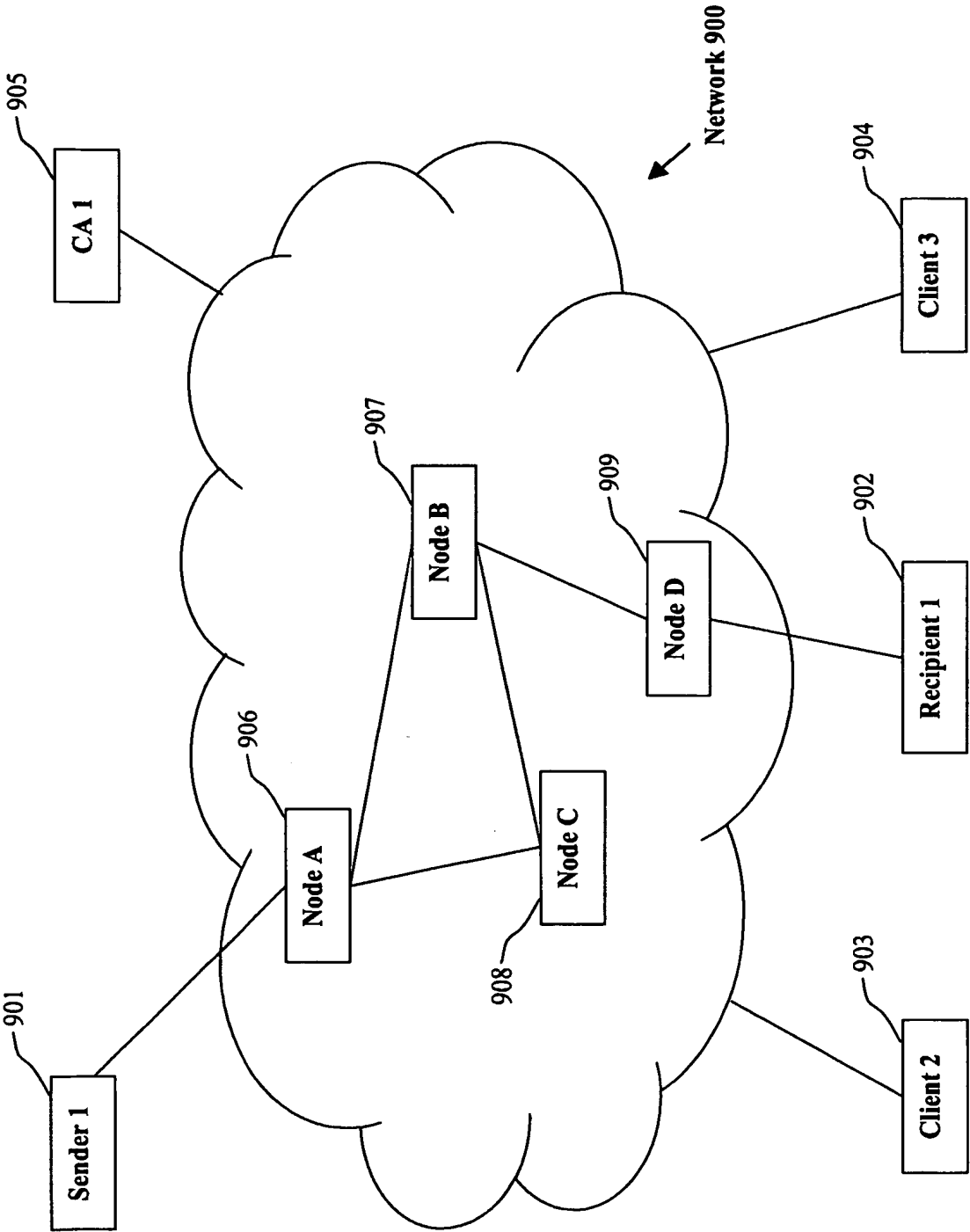


Fig. 9

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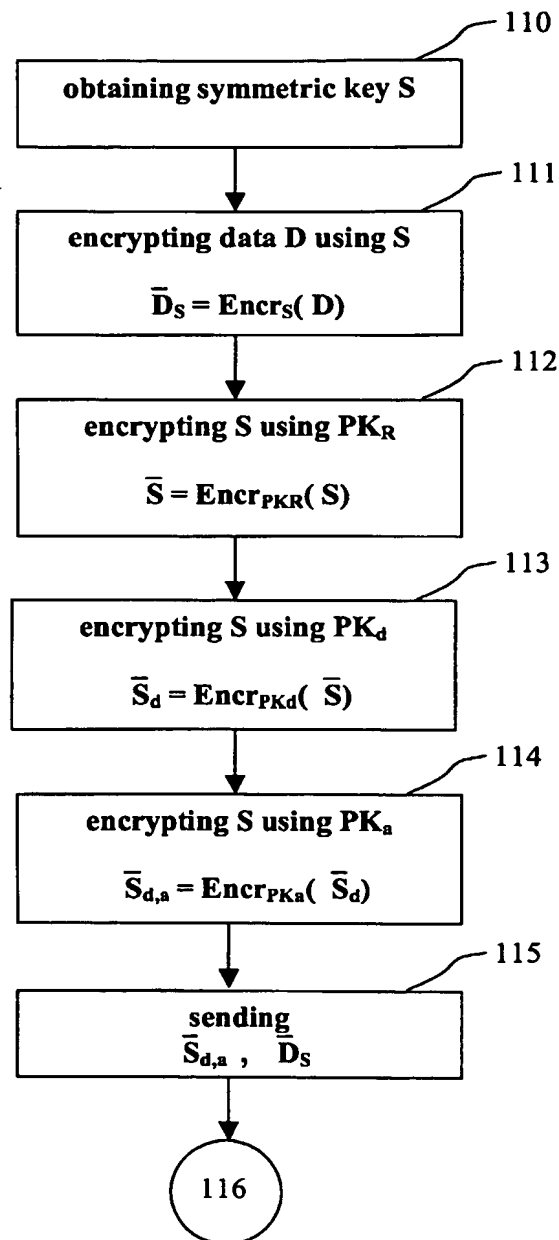


Fig. 10

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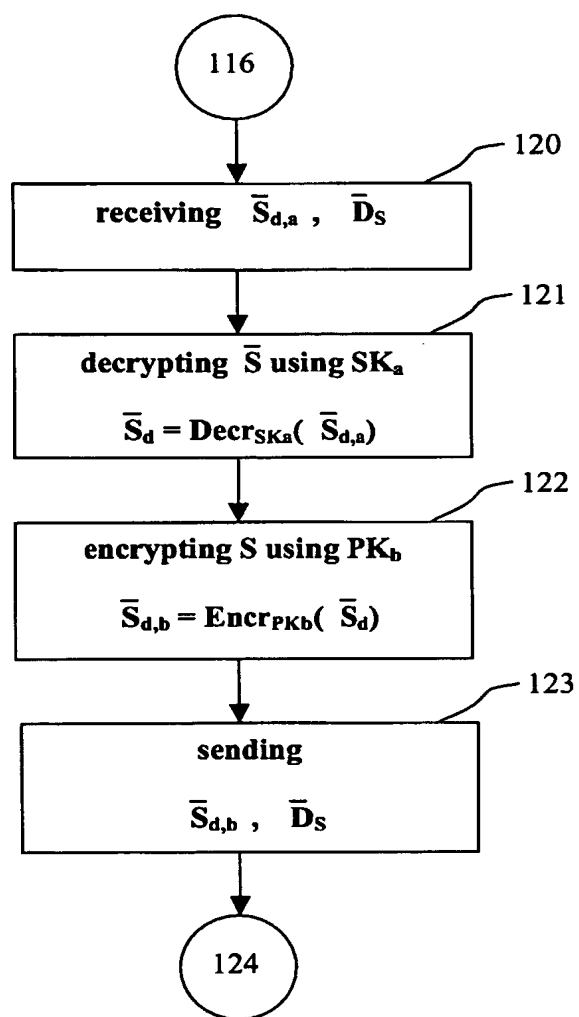


Fig. 11

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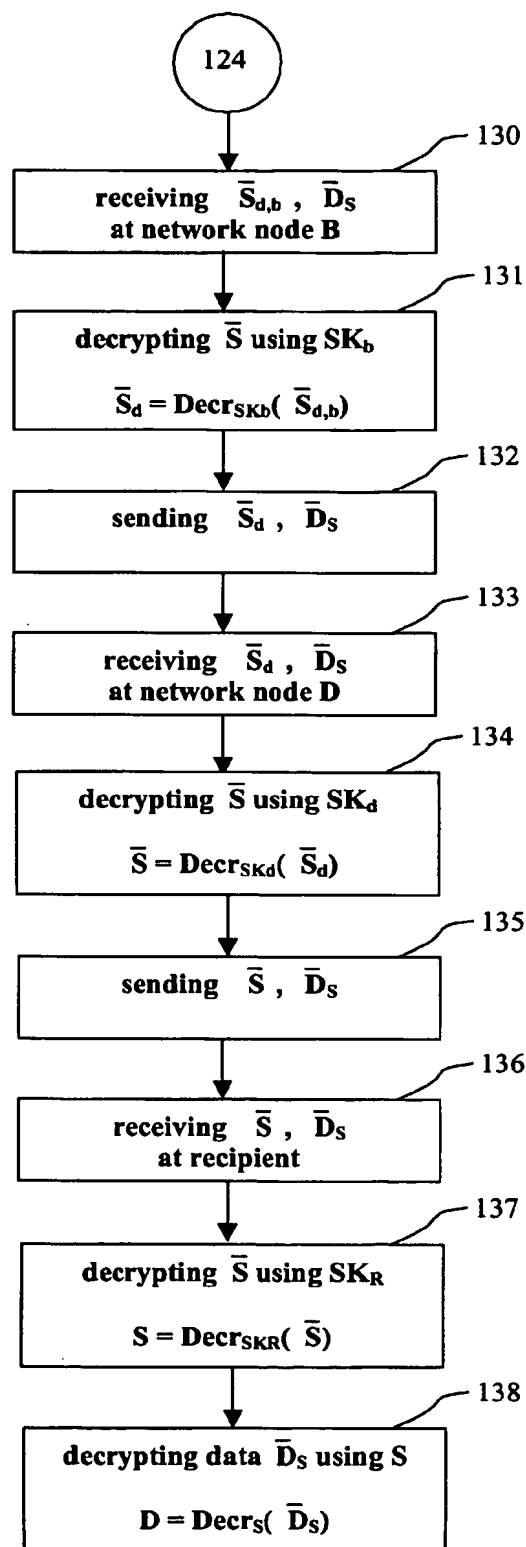


Fig. 12

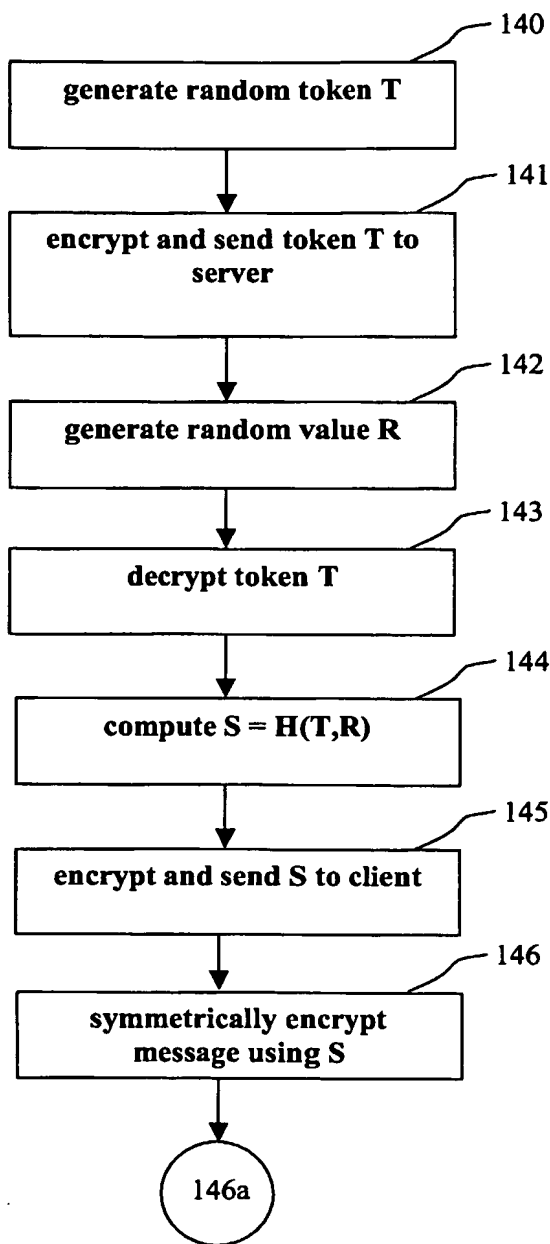


Fig. 13a

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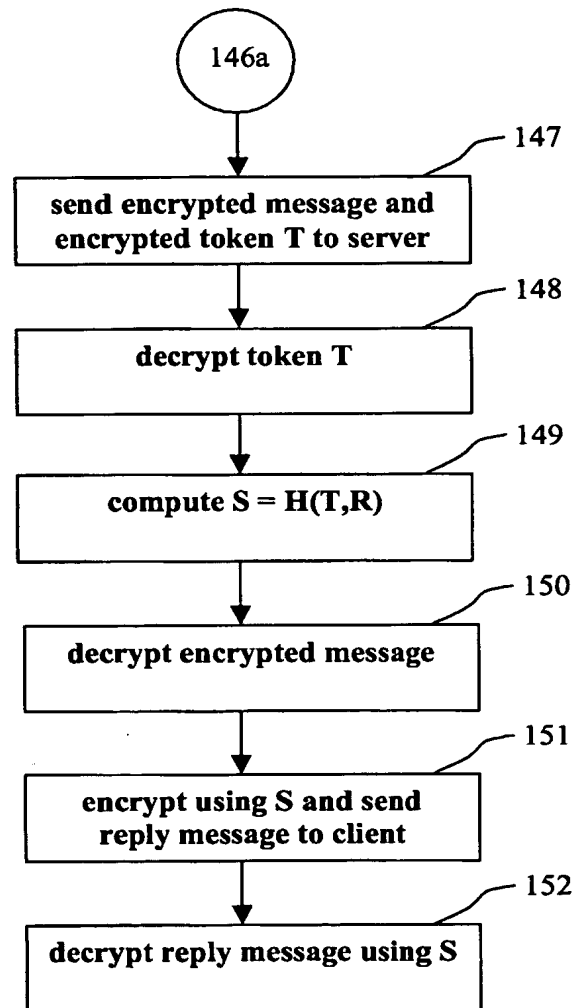


Fig. 13b